LABORATORY VERTICAL AUTOCLAVE BDN-409

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VERTICAL AUTOCLAVE

Safety:
1. Nice look
The lid and bench corners are covered with insulation to avoid getting scald
2. Lid closing check
The machine can not start if the lid is not locking well by checking mechanically and electrically.
3. Interlock
Only when the temperature and pressure are safe inside, can the door be opened. If the door is not closed in place, it cannot start working
4. Triple protection for water shortage
The bottom of the sterilization chamber is equipped with three different dry burning protection devices: liquid expansion type, copper temperature sensing type,

SPECIFICATIONS

Model	BDN-409
Capacity (L)	80
Dimensions (LxWxH) mm	620x745x1090
Chamber dimension (DiaxH) mm	Φ320x725
Rated power (W)	46000 (2900 optional)
Basket size (pcs)	(Φ360x275)x2
Power requirement	220V±10% 32A 50Hz/60Hz
Temperature display accuracy	0.1℃
Working environment	5℃~40℃ Relative humidity <85%
Chamber material	SUS304 stainless steel (316L as option)
Sterilization temp. range	105℃-135℃
Sterilization time range	1-6000 min
Melting temp. range	60℃-115℃
Melting time	1-6000 min
Warming temp.	45℃-79℃
Warming time	1-9999 min
Memory function	60 program saved in system,999 cycles saved by USB
Appointment timer range	Auto start up appointment)0 ~ 15 days
Controller	"SMART III" microcomputer controller
Exhaust speed control	Fully automatic internal discharging with 6 levels choice
Cooling way	Fast cooling fan
Pressure gauge range	-0.1-0.5MPa
Pressure valve set pressure	0.29Mpa
Vacuum pump	Pulse: 1-9, Vacuum ≤-80kpa, Leak rate ≤0.13kpa
Safety device	Lid check, dry protection, over-temp/pressure, electric safety, cooling lock
Alt Name	Deodorization

ACCESSORIES FOR PURCHASE

No	Name	Description

1	Micro printer	To print temp. time and FO value Printing set:printer+digital pressure sensor:can print temp.and pressure in data and flowchart way
2	Digital pressure sensor	Printing set:printer+digital pressure sensor:can print temp.and pressure in data and flowchart way
3	Load thermometer	Floating PT100 sensor
4	Tray	
5	Stainless steel bucket	
6	IQ/OQ/PQ (3Q)adapter joint	
7	Adjust foot	

1   2   3   4   5   6

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FEATURES

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Only when the temperature and pressure are safe inside, can the door be opened. If the door is not closed in place, it cannot start working
4. Triple protection for water shortage
The bottom of the sterilization chamber is equipped with three different dry burning protection devices: liquid expansion type, copper temperature sensing type, and electric ion type (water level sensor), to avoid misjudgment caused by a single method.
5. Double protection for over pressure
Mechanical pressure gauge and electric sensing system, once pressure is abnormal, the system will cut power, release the pressure and send out an alarm.
6. Auto troubleshooting
System will monitor the working status, and will cut the power, send out alarm, and report the error information once any abnormal situation is detected.
7. Safety test function
Regular testing of system security and safety protection measures is possible
8. Temperature monitor
Power cut and alarming sent, if there is temperature is too high or temperature rising is abnormal
9. Electrical production
Prevention for over current, short circuit and electricity leakage
10. Saturated steam monitoring
The system automatically monitors the purge out of cold air to ensure the pure steam

Intelligent:
1. Calibration port
Offer temp. and pressure interface, together with the 3Q adapter joints, can insert max 15 sensors one time to do the calibration

work
2. Saturated steam monitoring
The system automatically monitors the purge out of cold air to ensure the pure steam environment
3. Program memory storage system
Users can set their own program, and save it in the system.
4. Special software for drug packaging materials (option)
The product meets the 2020 Chinese Pharmacopoeia or EP10.2 standards

Humanization:
1. Just right depth
Conforming to ergonomics,the chamber depths of 29/54/80/100L chamber are 378/725/670/780 (mm), making it easy to take and place samples and maintain the instrument.
Advanced:

Colorful LCD screen
LCD screen with English and Chinese choice, using text, data, and graphical methods to dynamically display various statuses, the sterilization process is clear at a glance.
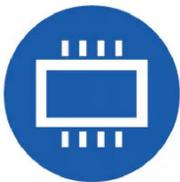

6 level of exhaust speed control
After sterilization, you can choose a different exhaust speed, and you can adjust it freely at any time of exhausting.

Condenser (Option)
Equipped with a professional condenser, the steam generated during the sterilization process is converted into water through the condenser, achieving zero discharge of water vapor/mist.

F0 value calculation
F0 value 1s automatic calculated, can print out by micro-printer

5 level access permission
The operation permissions for instruments are divided 1nto five levels, with each level of user
having an independent password and multiple IDs that can be assigned. Each level of user
has limited access to certain usage permissions

Fast cooling fan
To shorten cooling process after sterilization

Auto water fill(Option)
Offer pipe and pump to connect to the direct water supply to achieve automatic water feeding, must be added while production.

MORE INFO

Deodorization
A unique odor treatment system that can absorb odors and remove smell generated during the sterilization process, ensuring fresh laboratory air.

Air inlet filter
Filtration 1s higher than 99.99% 1n particles with diameter of 0.2 μm

Biolab Scientific Ltd.
Trillium Executive Center, East Tower, 675 Cochrane Dr, Markham, Ontario L3R 0B8, Canada
Email: info@biolabscientific.com | Website: www.biolabscientific.com